Access DB# 80312

SEARCH REQUEST FORM

Scientific and Technical Information Center

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Requester's Full Name: #NDY MSHNIKOW Examiner #: 6048 Date: 111502 Art Unit: 3700 Phone Number 308-1137 Serial Number: 100161 Mail Box and Bldg/Room Location: 612-2401 Results Format Preferred (circle): PAPER DISK E-MAIL If more than one search is submitted, please prioritize searches in order of need. **********************************					
			Title of Invention:		
			Inventors (please provide full names): _		
			Earliest Priority Filing Date:		
For Sequence Searches Only Please includ	e all pertinent information	(parent, child, divisional, or issued patent numbers) along with the			
appropriate serial number.					
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LIT SE	ARCH - U	I.S. PATENT NO.			
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STAFF USE ONLY	Type of Search	Vendors and cost where applicable			
Searcher: Solomon	NA Sequence (#)	STN			
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Searcher Location: <u>CPZ 2CO8</u>	Structure (#)	Questel/Orbit			
Date Searcher Picked Up: 11-15-02 Date Completed: 11-15-02	Bibliographic	Dr.Link			
Scarcher Prep & Review Time:	Litigation	Lexis/Nexis_			
Clerical Prep Time:	Fulltext	Sequence Systems			
Online Time:	Patent Family	WWW/Internet			

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UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6001130

December 14, 1999

Human spinal disc prosthesis with hinges

APPL-NO: 08944378 (08)

FILED-DATE: October 6, 1997

GRANTED-DATE: December 14, 1999

ENGLISH-ABST:

The invention relates to a spinal disc endoprosthesis. The endoprosthesis has a resilient body formed of one or more materials which may vary in stiffness from a relatively stiff exterior annular gasket portion to a relatively supple central nucleus portion. Concaval- convex elements at least partly surround that nucleus portion so as to retain the nucleus portion and gasket between adjacent vertebral bodies in a patient's spine. Assemblies of endoprosthetic discs, endoprosthetic vertebral bodies, and endoprosthetic longitudinal ligaments may be constructed. To implant this endoprosthesis assembly, information is obtained regarding the size, shape, and nature of a patient's damaged spine. Thereafter, one or more prosthetic vertebral bodies and disc units are constructed in conformity with that information. Finally, the completed and conformed vertebral body and disc assembly is implanted in the patient's spine.

(C) QUESTEL 1994 QUESTEL.ORBIT (TM) 1998 Selected file: PLUSPAT

TI - (A) Human spinal disc prosthesis with hinges IN - (A) BRYAN VINCENT (US); KUNZLER ALEX (US) AP - US94437897 19971006 [1997US-0944378] PR - US94437897 19971006 [1997US-0944378]

CA2202453 19970411 [1997CA-2202453]
US68123096 19960722 [1996US-0681230]
US33949094 19941114 [1994US-0339490]

IC - (A) A61F-002/44 EC - A61F-002/30B8 A61F-002/44 A61F-002/44D ICO - K61B-017/00A

K61B-017/68P K61B-017/86 K61F-002/00A2E K61F-002/00A2F K61F-002/00K2C K61F-002/00K6L K61F-002/00T1T K61F-002/00T11 K61F-002/00T12B K61F-002/00T14

K61F-002/00T32 K61F-002/00T33G K61F-002/00T33V

K61F-002/00T33V K61F-002/00T4 K61F-002/00T7

K61F-002/00T8 K61F-002/00T9

K61F-002/00W87 K61F-002/00W95 K61F-002/00Y1

K61F-002/00Y2M K61F-002/00Y3T

K61F-002/00Y5E K61F-002/08B K61F-002/30D

K61F-002/30E K61F-002/30K

PCL -

DT -

K61F-002/30L2 K61F-002/30L2A K61F-002/30L2A9P

ORIGINAL (0): 623017160; CROSS-REFERENCE (X): 606061000 Corresponding document

CT - US2677369; US4309777; US4599086; US4759766; US4759769; US4911718; US4917704; US4932969; US4955908; US4997432; US5002576; US5071437; US5122130; US5171281; US5192326; US5234431; US5258031; US5261911; US5306307; US5306308; US5314477; US5370697; US5401269; US5458642; US5534029; US5556431; US5674294; US5674296; EP0176728; EP000560140 A1; DE2263842; DE3023353; SU1560184 A1; SU895433 "The Ocurrence of Optic Neuritis in Lesions of the Spinal Cord, Injury, Tumor, Melitis;" Taylor, Collier; Brain: A Journal of Neurology; vol. 24; Macmillian & Co. Ltd., 1901; pp. 532-550.

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STG - (A) United States patent

AR -The invention relates to a spinal disc endoprosthesis. The endoprosthesis has a resilient body formed of one or more materials which may vary in stiffness from a relatively stiff exterior annular gasket portion to a relatively supple central nucleus portion. Concaval-convex elements at least partly surround that nucleus portion so as to retain the nucleus portion and gasket between adjacent vertebral bodies in a patient's spine. Assemblies of endoprosthetic discs, endoprosthetic vertebral bodies, and endoprosthetic longitudinal ligaments may be constructed. To implant this endoprosthesis assembly, information is obtained regarding the size, shape, and nature of a patient's damaged spine. Thereafter, one or more prosthetic vertebral bodies and disc units are constructed in conformity with that information. Finally, the completed and conformed vertebral body and disc assembly is implanted in the patient's spine.

1 / 1 LGST - ©LEGSTAT

PN - US 6001130 [US6001130]

AP - US 944378/97 19971006 [1997US-0944378]

DT - US-P

ACT - 19971006 US/AE-A

APPLICATION DATA (PATENT)

US 944378/97 19971006 [1997US-0944378]

19991214 US/A

PATENT

UP - 2000-13

1 / 1 CRXX - @CLAIMS/RRX

PN - 6,001,130 A 19991214 [US6001130]

PA - Bryan, Vincent; Kunzler, Alex ACT - 20011214 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20021105

REISSUE REQUEST NUMBER: 10/017611

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3738

Reissue Patent Number:

1 / 1 PAST - @Thomson Derwent

AN - 200245-001818

PN - 6001130 A [US6001130]

OG - 2002-11-05

ACT - REISSUE APPLICATION FILED

Selected file: INPADOC

** SS 1: Results 8

1 / 8 INPADOC - @INPADOC

PN - CA 2202453 AA 19981011 [CA2202453]

TI - HUMAN SPINAL DISC PROSTHESIS

LA - ENG

IN - BRYAN VINCENT [US]; KUNZLER ALEX [US]

PA - BRYAN VINCENT [US]; KUNZLER ALEX [US]

AP - CA 2202453/97-A 19970411 [1997CA-2202453]

PR - CA 2202453/97-A 19970411 [1997CA-2202453] US 681230/96-A 19960722 [1996US-0681230]

US 339490/94-A 19941114 [1994US-0339490]

IC - A61F-002/44

2 / 8 INPADOC - @INPADOC

PN - EP 1166725 A2 20020102 [EP1166725]

TI - HUMAN SPINAL DISC PROSTHESIS

LA - ENG

IN - BRYAN VINCENT [US]; KUNZLER ALEX [US]

PA - SPINAL DYNAMICS CORP [US]

AP - EP 1123288/01-A 19970606 [2001EP-1123288]

PR - EP 97303934/97-A3 19970606 [1997EP-0303934] US 681230/96-A 19960722 [1996US-0681230]

IC - A61F-002/44

DS - AT* BE* CH* DE* DK* ES* FI* FR* GB* GR* IE* IT* LI* LU* MC* NL* PT* SE*

1 / 2 LEGALI - ©LEGSTAT

PN - EP 1166725 [EP1166725]

AP - EP 01123288/01 19970606 [2001EP-0123288]

DT - EP-P

ACTE - 19970606 EP/AE-A

EP-APPLICATION

EP 01123288/01 19970606 [2001EP-0123288]

20020102 EP/AC-P

DIVISIONAL APPLICATION (ART. 76) OF:

(EP 820740 20020102 [EP-820740])

20020102 EP/AK-A2 [+]

DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH

REPORT:

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

20020102 EP/A2 [+]

PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT

20020502 EP/RIN1

INVENTOR (CORRECTION)

BRYAN, VINCENT * KUNZLER, ALEX

20020703 EP/AK-A3 [+]

DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

20020703 EP/A3 [+]

SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)

UP - 2002-27

2 / 2 LEGALI - ©LEGSTAT EP 820740 [EP-820740] PN AP EP 97303934/97 19970606 [1997EP-0303934] \mathbf{DT} EP-P 19970606 EP/AE-A ACTE -**EP-APPLICATION** EP 97303934/97 19970606 [1997EP-0303934] 19980128 EP/AK-A1 [+] DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE 19980128 EP/A1 [+] PUBLICATION OF APPLICATION WITH SEARCH REPORT 19980923 EP/17P [+] REQUEST FOR EXAMINATION FILED 980727 19981007 EP/RBV [+] DESIGNATED CONTRACTING STATES (CORRECTION): AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE 19990203 EP/RAP1 APPLICANT REASSIGNMENT (CORRECTION) SPINAL DYNAMICS CORPORATION 19990203 EP/RIN1 INVENTOR (CORRECTION) BRYAN, VINCENT * KUNZLER, ALEX 20001011 EP/17Q [+] FIRST EXAMINATION REPORT 20000823 20020102 EP/AH-P DIVISIONAL APPLICATION (ART. 76) IN: (EP 1166725 20020102 [EP1166725]) UΡ 2002-01 3 / 8 INPADOC - @INPADOC EP 1166725 A3 20020703 [EP1166725] PN -TI -HUMAN SPINAL DISC PROSTHESIS LA -ENG IN -BRYAN VINCENT [US]; KUNZLER ALEX [US] SPINAL DYNAMICS CORP [US] PA -EP 1123288/01-A 19970606 [2001EP-1123288] AP -PR -EP 97303934/97-A3 19970606 [1997EP-0303934] US 681230/96-A 19960722 [1996US-0681230] TC -A61F-002/44 AT* BE* CH* DE* DK* ES* FI* FR* GB* GR* IE* IT* LI* LU* MC* NL* PT* DS -SE* 1 / 2 LEGALI - ©LEGSTAT DN EP 1166725 [EP1166725] AΡ EP 01123288/01 19970606 [2001EP-0123288] DT EP-P

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19970606 EP/AE-A EP-APPLICATION

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EP 01123288/01 19970606 [2001EP-0123288]

20020102 EP/AC-P DIVISIONAL APPLICATION (ART. 76) OF: (EP 820740 20020102 [EP-820740])

20020102 EP/AK-A2 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

20020102 EP/A2 [+]
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT

20020502 EP/RIN1 INVENTOR (CORRECTION) BRYAN, VINCENT * KUNZLER, ALEX

20020703 EP/AK-A3 [+]
DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

20020703 EP/A3 [+] SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)

UP - 2002-27

2 / 2 LEGALI - ©LEGSTAT

PN - EP 820740 [EP-820740]

AP - EP 97303934/97 19970606 [1997EP-0303934]

DT - EP-P

ACTE - 19970606 EP/AE-A EP-APPLICATION EP 97303934/97 19970606 [1997FP-0

EP 97303934/97 19970606 [1997EP-0303934]

19980128 EP/AK-A1 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

19980128 EP/A1 [+]
PUBLICATION OF APPLICATION WITH SEARCH REPORT

19980923 EP/17P [+]
REQUEST FOR EXAMINATION FILED
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19981007 EP/RBV [+]
DESIGNATED CONTRACTING STATES (CORRECTION):
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

19990203 EP/RAP1 APPLICANT REASSIGNMENT (CORRECTION) SPINAL DYNAMICS CORPORATION

19990203 EP/RIN1 INVENTOR (CORRECTION) BRYAN, VINCENT * KUNZLER, ALEX

20001011 EP/17Q [+] FIRST EXAMINATION REPORT 20000823

20020102 EP/AH-P DIVISIONAL APPLICATION (ART. 76) IN: (EP 1166725 20020102 [EP1166725]) UΡ 2002-01 INPADOC - @INPADOC PN -EP 820740 A1 19980128 [EP-820740] TI -HUMAN SPINAL DISC PROSTHESIS LA -IN -BRYAN VINCENT [US]; KUNZLER ALEX [US] PA -BRYAN VINCENT [US]; KUNZLER ALEX [US] AP -EP 97303934/97-A 19970606 [1997EP-0303934] CA 2202453/97-A 19970411 [1997CA-2202453] US 681230/96-A 19960722 [1996US-0681230] IC -A61F-002/44 AT* BE* CH* DE* DK* ES* FI* FR* GB* GR* IE* IT* LI* LU* MC* NL* PT* DS -SE* 1 / 2 LEGALI - ©LEGSTAT EP 1166725 [EP1166725] PNEP 01123288/01 19970606 [2001EP-0123288] AΡ DT EP-P ACTE -19970606 EP/AE-A **EP-APPLICATION** EP 01123288/01 19970606 [2001EP-0123288] 20020102 EP/AC-P DIVISIONAL APPLICATION (ART. 76) OF: (EP 820740 20020102 [EP-820740]) 20020102 EP/AK-A2 [+] DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE 20020102 EP/A2 [+] PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT 20020502 EP/RIN1 INVENTOR (CORRECTION) BRYAN, VINCENT * KUNZLER, ALEX 20020703 EP/AK-A3 [+] DESIGNATED CONTRACTING STATES IN A SEARCH REPORT: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE 20020703 EP/A3 [+] SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93) tπ 2002-27 LEGALI - ©LEGSTAT 2 / 2 EP 820740 [EP-820740] EP 97303934/97 19970606 [1997EP-0303934] \mathbf{AP} DТ EP-P ACTE -19970606 EP/AE-A

EP-APPLICATION

19980128 EP/AK-A1 [+]

EP 97303934/97 19970606 [1997EP-0303934]

DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH

REPORT: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE 19980128 EP/A1 [+] PUBLICATION OF APPLICATION WITH SEARCH REPORT 19980923 EP/17P [+] REQUEST FOR EXAMINATION FILED 980727 19981007 EP/RBV [+] DESIGNATED CONTRACTING STATES (CORRECTION): AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE 19990203 EP/RAP1 APPLICANT REASSIGNMENT (CORRECTION) SPINAL DYNAMICS CORPORATION 19990203 EP/RIN1 INVENTOR (CORRECTION) BRYAN, VINCENT * KUNZLER, ALEX 20001011 EP/17Q [+] FIRST EXAMINATION REPORT 20000823 20020102 EP/AH-P DIVISIONAL APPLICATION (ART. 76) IN: (EP 1166725 20020102 [EP1166725]) 2002-01 5 / 8 INPADOC - @INPADOC PN - US 6156067 A 20001205 [US6156067] HUMAN SPINAL DISC PROSTHESIS BRYAN VINCENT [US]; KUNZLER ALEX [US] SPINAL DYNAMICS CORP [US] US 856846/97-A 19970515 [1997US-0856846] US 856846/97-A 19970515 [1997US-0856846] US 681230/96-A2 19960722 [1996US-0681230] US 339490/94-B2 19941114 [1994US-0339490] IC - A61F-002/44; A61B-017/56; A61B-017/58 1 / 1 LEGALI - ©LEGSTAT US 6156067 [US6156067] US 856846/97 19970515 [1997US-0856846] US-P 19970515 US/AE-A APPLICATION DATA (PATENT) US 856846/97 19970515 [1997US-0856846] 20001205 US/A

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US 5674296 A 19971007 [US5674296] PN -

TI -HUMAN SPINAL DISC PROSTHESIS

IN -BRYAN VINCENT [US]; KUNZLER ALEX [US]

PA -SPINAL DYNAMICS CORP [US]

AP -US 681230/96-A 19960722 [1996US-0681230]

US 681230/96-A 19960722 [1996US-0681230] CA 2202453/97-A 19970411 [1997CA-2202453] US 339490/94-B2 19941114 [1994US-0339490] A61F-002/44 IC -1 / 1 LEGALI - ©LEGSTAT PN US 5674296 [US5674296] AΡ US 681230/96 19960722 [1996US-0681230] \mathbf{DT} US-P ACTE -19960722 US/AE-A APPLICATION DATA (PATENT) US 681230/96 19960722 [1996US-0681230] 19970428 US/AS02 ASSIGNMENT OF ASSIGNOR'S INTEREST SPINAL TECHNOLOGIES CORPORATION 4624 E. MERCER WAY MERCER ISLAND, WASHINGTON 980 * BRYAN, VINCENT E. JR.: 19970309; KUNZLER, ALEX : 19970309 19970502 US/AS03 MERGER SPINAL DYNAMICS CORPORATION SUITE 203 15400 S.E. 30TH PLACE BELLEVUE, WASHINGTON * SPINAL TECHNOLOGIES CORPORATION: 19970310 19971007 US/A PATENT ŢΡ 2000-52 INPADOC - ©INPADOC 7 / 8 US 5865846 A 19990202 [US5865846] HUMAN SPINAL DISC PROSTHESIS BRYAN VINCENT [US]; KUNZLER ALEX [US] IN -PA -BRYAN VINCENT [US]; KUNZLER ALEX [US] AP -US 856513/97-A 19970515 [1997US-0856513] PR -US 856513/97-A 19970515 [1997US-0856513] CA 2202453/97-A 19970411 [1997CA-2202453] US 681230/96-A3 19960722 [1996US-0681230] US 339490/94-B2 19941114 [1994US-0339490] IC -A61F-002/44 1 / 1 LEGALI - ©LEGSTAT PN US 5865846 [US5865846] US 856513/97 19970515 [1997US-0856513] AP DTACTE -19970515 US/AE-A APPLICATION DATA (PATENT) US 856513/97 19970515 [1997US-0856513] 19990202 US/A PATENT 20010410 US/RF REISSUE APPLICATION FILED 20010202 UΡ 2001-19 INPADOC - @INPADOC PN -US 6001130 A 19991214 [US6001130]

HUMAN SPINAL DISC PROSTHESIS WITH HINGES

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BRYAN VINCENT [US]; KUNZLER ALEX [US] IN -

BRYAN VINCENT [US]; KUNZLER ALEX [US] PA -

US 944378/97-A 19971006 [1997US-0944378]
US 944378/97-A 19971006 [1997US-0944378]
CA 2202453/97-A 19970411 [1997CA-2202453]
US 681230/96-A2 19960722 [1996US-0681230]
US 339490/94-B2 19941114 [1994US-0339490] AP -PR -

IC - A61F-002/44

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US 6001130 [US6001130]

AΡ US 944378/97 19971006 [1997US-0944378]

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ACTE -19971006 US/AE-A

APPLICATION DATA (PATENT)

US 944378/97 19971006 [1997US-0944378]

19991214 US/A

PATENT

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Session finished: 15 NOV 2002 Time 20:56:56